

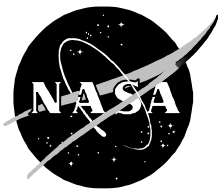
VERSION DESCRIPTION DOCUMENT FOR THE NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS) CENTRAL

Release 5.1

NASA-NEMSCENT-VDD-13

PrISMS Contract

August 30, 2002



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

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NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS) CENTRAL
RELEASE 5.1**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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TABLE OF CONTENTS

Section	Page
1. INTRODUCTION	1-1
1.1. IDENTIFICATION OF THE RELEASE	1-1
1.2. PURPOSE OF THE RELEASE	1-1
1.3. SCOPE.....	1-1
1.4. CONTACT POINTS.....	1-2
2. FUNCTIONAL INFORMATION	2-1
2.1. FUNCTIONAL CHANGES.....	2-1
2.2. FUNCTIONAL INTERFACES.....	2-1
2.3. CRITICAL ISSUES.....	2-1
2.4. AFFECTED DOCUMENTS	2-1
2.5. APPLICATION SYSTEM ADMINISTRATION	2-1
3. TECHNICAL INFORMATION.....	3-1
3.1. TECHNICAL SYSTEM INTERFACES.....	3-1
3.2. DATA DICTIONARY CHANGES	3-1
3.3. SOFTWARE OBJECT CHANGES	3-1
3.4. DATABASE ADMINISTRATION.....	3-1
3.4.1. Release Dataset Names	3-1
3.4.2. Inventory of Objects.....	3-1
3.4.3. Storage Considerations	3-1
3.4.4. Installation Procedures	3-1
3.5. OPERATIONAL PREPARATION	3-1
4. KNOWN AND OPEN PROBLEMS.....	4-1

TABLE OF CONTENTS

Section	Page
APPENDIX A - ABBREVIATIONS AND ACRONYMS	A-1
APPENDIX B - GLOSSARY.....	B-1
APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES.....	C-1
APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS CENTRAL SOFTWARE RELEASE 5.1	D-1

1. INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for this release of the NASA Equipment Management System (NEMS) Central. This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1. IDENTIFICATION OF THE RELEASE

This software release is identified as NEMS Central, Release 5.1 and has an effective release date of August 30, 2002.

1.2. PURPOSE OF THE RELEASE

This release implements modifications for the following Change Control Requests (CCRs):

<u>CCR</u>	<u>Title</u>
320	Modifications to the NEMS Central Web screening
327	ECN not deleted from NEMS-Cent-Equip
335	Identify JPL Heritage Items
337	NEMS Central Screening Disclaimer

This release implements modifications necessitated by the following Discrepancy Reports (DRs):

<u>CCR</u>	<u>Title</u>
None	None

1.3. SCOPE

This VDD provides the functional and technical user of NEMS Central with information regarding the content, status, and structure of Release 5.1, including the following:

- Changes implemented since Release 5.0;
- Validation procedures to ensure the reliability of release changes;
- References to other documentation affected by this release;
- Detailed software installation instructions.

No waivers are associated with this release.

1.4. CONTACT POINTS

Sustaining Engineering for NEMS Central is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Use following Key Words: SESAAS & NEMS Central)

Telephone: (256) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (256) 544-1836

2. FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1. FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT changes related to this release.

2.2. FUNCTIONAL INTERFACES

This section is not applicable for this release.

2.3. CRITICAL ISSUES

This section is not applicable for this release.

2.4. AFFECTED DOCUMENTS

User's Guide for NEMS Central Screening 5.1

2.5. APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3. TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1. TECHNICAL SYSTEM INTERFACES

This section is not applicable for this release.

3.2. DATA DICTIONARY CHANGES

Refer to Appendix D, Section 4.0, for the data dictionary changes in this release.

3.3. SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4. DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1. Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2. Inventory of Objects

Refer to Appendix D, Section 2.1, for an inventory of Natural object types.

3.4.3. Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4. Installation Procedures

Refer to Appendix D, Installation Instructions for NEMS Central Software Release 5.1 for detailed software installation procedures.

3.5. OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4. KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A - ABBREVIATIONS AND ACRONYMS

CC	Consolidation Center
CCR	Change Control Request
CSC	Computer Sciences Corporation
DBA	Database Administrator
DR	Discrepancy Report
FAX	Electronic Facsimile Transmission
IRM	Information Resources Management
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NEMS	NASA Equipment Management System
NPDMS	NASA Property Disposal Management System
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document

APPENDIX B - GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a NASA software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a NASA application release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with a NASA application.

APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures for changes in this release:

Section	CCR	Title
1.0	320	Modifications to the NEMS Central Web screening
2.0	327	ECN not deleted from NEMS-Cent-Equip
3.0	335	Identify JPL Heritage Items
4.0	337	NEMS Central Screening Disclaimer

Details for the validation procedures follow:

1.0 CCR 320 – Modifications to the NEMS Central Web screening

Modifications have been requested to improve the NEMS Central web front end.

Description of Change

Code was changed to add a hit counter and add a curator to the menu screen.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- View the menu screen.
Expected Results: The hit counter and curator should be displayed on the screen.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS Central</u>		
No mainframe changes		

2.0 CCR 327 – ECN not deleted in NEMS-CENT-EQUIP

When a transaction 21 (Receipt resulting from conversion of lease to purchase) is performed the new ECN is added to the equipment file and the old ECN is deleted from the equipment file and added to the history file (transaction 87 is automatically generated to handle this). However in NEMS central the old ECN is not being deleted from the equipment file.

Description of Change

Code was changed to delete the ECN from the equipment file and the new ECN will show the correct previous ECN.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Have an ECN (Trans 08) in NEMS and NEMS Central.
- Do a Trans 21 using the previous ECN.
Expected Results: Completes Successfully.
- Run NEMS and NEMS Central.
Expected Results: Completes Successfully.
- By doing a NEMS Central Adhoc, verify the following:
- Manufacturer Serial No, Year Manufactured, Previous ECN, Equipment Zip Code, Date Status Coded, Date NASA Acquired, Entry Reference Number, Transaction history for ERN, and Transaction number are populated for the new ECN;
- The old ECN is not on the Equipment file and is on the History file;
- The new ECN is on the Equipment file with the transaction history for the ERN and Transaction number are populated.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS Central</u>		
TRN087P1	Delete Trans 87 – Delete – Lease to Purchase	Program
TRN021P1	Add Trans 21 – Receipt – Lease to Purchase	Program
MSD008P4	Sorted Data Duplicate Check	Program

3.0 CCR 335 – Identify JPL Heritage Items

NEMS Central has a field for Heritage Items that is updated from NEMS for items that are Heritage Items. The JPL interface does not have a field to update the Heritage Item field. JPL needs to be able to update the Heritage Item field.

Description of Change

Code was changed to add a field to the JPL interface so they will be able to identify Heritage Items.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Run program NCEQJPL.
Expected Results: A work file will be created with the new Heritage Codes as the last character of the file.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NEMS Central		
NCEQJPL	Expand JPL data to NEMS-Cent-Equipment format	Program

4.0 CCR 337 – NEMS Central Screening Disclaimer

A disclaimer needs to be added during the login process for the NEMS Central Screening web site. This disclaimer should indicate that this web site is intended only for the use of NASA and NASA Contract employees.

Description of Change

Code was changed to add a disclaimer between the Warning screen and the Logon screen.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Enter the NEMS Central website.
Expected Results: Should receive the disclaimer screen before entering NEMS Central.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS Central</u>		
No mainframe changes		

APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS CENTRAL SOFTWARE RELEASE 5.1

Introduction

Release information:

System Name: NEMS Central
Release Number: 5.1
Release Date: August 30, 2002
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NEMS Central)

Telephone: (256) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (256) 544-1836

The following datasets are located on the transient storage DASD volumes under the following data sets names:

- MSMOV.NEMC.PROD.R510.R0802.SRC

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all NEMS CENTRAL files as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Copy Source Code

Load the NEMS Central source library from dataset:
MSMOV.NEMC.PROD.R510.R0802.SRC.

The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library NEMSCENT, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules by Type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	0
MAPS	0
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	0
PROGRAMS	6
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	6

2.3 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules:

1. None	
---------	--

Changed Modules:

1. ADHOCENT	Program
2. MSD008P4	Program
3. NCEQJPL	Program

4. NEMS	Program
5. TRN021P1	Program
6. TRN087P1	Program

Delete Modules:

Not applicable with this release.

2.3 Copy Object Modules

Not applicable with this release.

3.0 Pre-Predict Data Conversion

Not applicable with this release.

4.0 Install Predict

Not applicable with this release.

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all modules in the NEMSCENT or other named library. It is not necessary to catalog the Global Data Area. You should receive 5 NATURAL 0002 errors for modules beginning with ADHOC21* that concern trying to stow a dynamic program. It is not necessary to attempt to resolve the 5 errors. The NASA Batch Standard Parameters should be used for the compile.

After all objects are compiled, the NEMS CENTRAL application will run under the NASA On-line Standard Parameter.

6.0 Post-Predict Data Conversion

There is no post-Predict data conversion required.

7.0 Perform Release-Specific Procedures

There are no release-specific procedures with this release.

8.0 Local JCL Mods

There are no Local JCL Mods with this release.

9.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code

- 2.1 Copy Source Code
- 2.2 List of Source Code Modifications
- 2.3 Copy Object Modules
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
 - 4.1 Data Dictionary Changes
 - 4.1.1 Inventory of Objects
 - 4.1.2 Storage Considerations
 - 4.1.3 Physical File Changes
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods